JBW — 1-9-69
RAE

MODERN FLASHING LIGHT HIGHWAY CROSSING SIGNALS WITH HIGH INTENSITY LAMPS

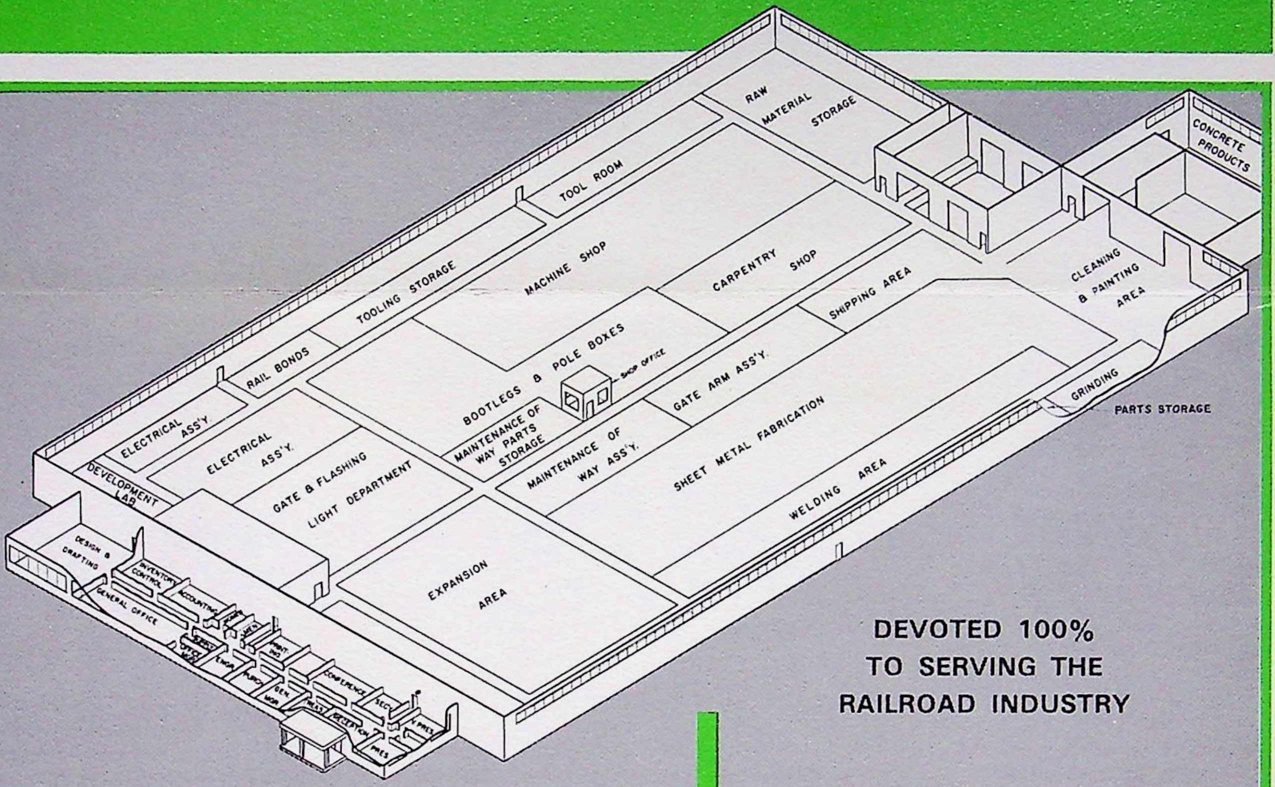
Railroad Accessories Corporation
4650 Main Street Northeast
Minneapolis, Minnesota 55421

JBW — 1-9-69
RAE

MODERN FLASHING LIGHT
HIGHWAY CROSSING SIGNALS
WITH
HIGH INTENSITY LAMPS

RAILROAD ACCESSORIES CORPORATION
4650 MAIN STREET N.E.
MINNEAPOLIS, MINNESOTA 55421

It's what's inside that counts...


RAW MATERIAL STORAGE
CONCRETE PRODUCTS
TOOL ROOM
MACHINE SHOP
CARPENTRY SHOP
TOOLING STORAGE
CLEANING & PAINTING AREA
SHIPPING AREA
RAIL BONDS
BOOTLEGS & POLE BOXES
SHOP OFFICE
GATE ARM ASS'Y.
GRINDING
PARTS STORAGE
ELECTRICAL ASS'Y.
ELECTRICAL ASS'Y.
MAINTENANCE OF WAY PARTS STORAGE
MAINTENANCE OF WAY ASS'Y.
SHEET METAL FABRICATION
DEVELOPMENT LAB
GATE & FLASHING LIGHT DEPARTMENT
WELDING AREA
EXPANSION AREA
DESIGN & DRAFTING
INVENTORY CONTROL
ACCOUNTING
GENERAL OFFICE
OFFICE MGR
ENGR.
PRINTING
PURCH.
GEN. MGR
CONFERENCE
SECY
RECEPTION
PRES
V. PRES

**DEVOTED 100%
TO SERVING THE
RAILROAD INDUSTRY**

105,000 sq. ft. of manufacturing space
8,000 sq. ft. of office space

ALL UNDER ONE ROOF

Physical plants are a necessity — men and women are vital — there are over One Hundred Twenty of us with only one objective . . . To Serve Your Growing Needs.

A FULL SERVICE COMPANY

- **From Design to**
  - **Manufacturing to**
    - **Installation and**
      - **Maintenance**

We are as close to you as your telephone.

MEMO:

There are bound to be difficulties and delays in service and deliveries attendant to a relocation such as we have *just concluded*. We are grateful for your patience with us during this time.

Your visit to our NEW HOME would be a welcome event. Give us a call ANY TIME and we will be happy to make arrangements for your inspection of our operations.

President

P.S. Hope to see you at our BOOTH 8 during the AAR-CS section annual meeting.

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RAILWAY PROGRESS INSTITUTE

RACO PRODUCTS ®
ENGINEERED FOR LONG LIFE

Railroad Accessories Corporation

**Main Office and Plant: 4650 MAIN STREET N.E., MINNEAPOLIS, MINN. 55421
Office and Plant: 7615 NATIONAL TURNPIKE, FAIRDALE, KY. 40118**

IN CANADA: Vale Enterprises, Ltd., 352 Dorval Ave., Dorval, Quebec

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4650 Main Street N.E.
Minneapolis, Minnesota 55421

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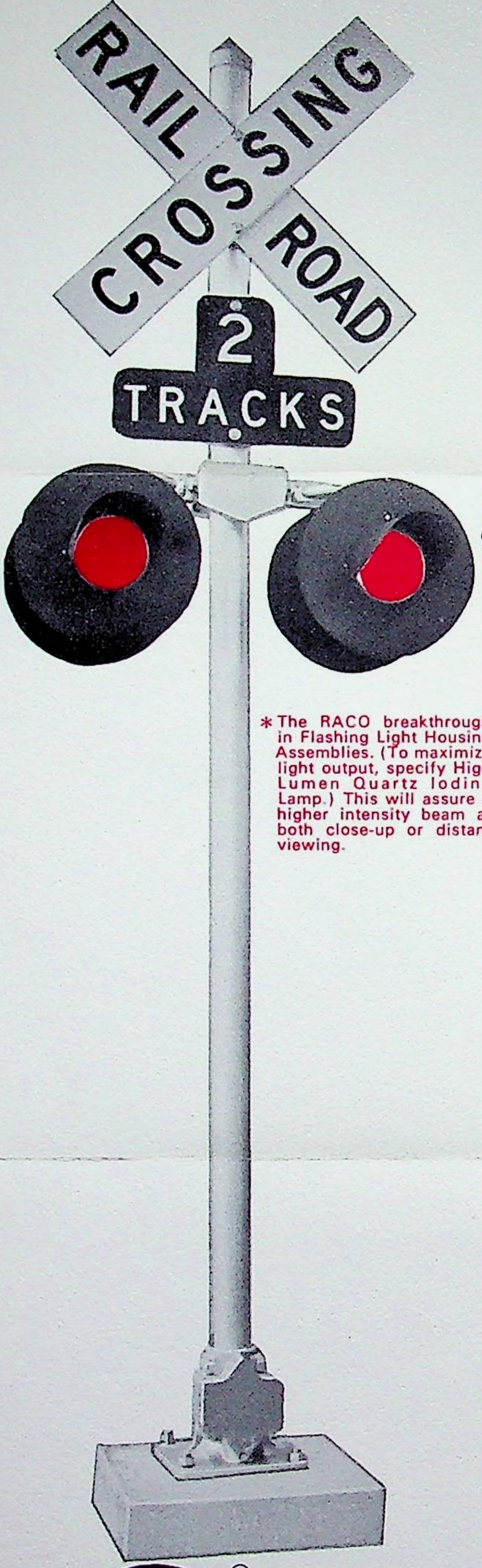
WHAT'S UP FRONT?

RACO®

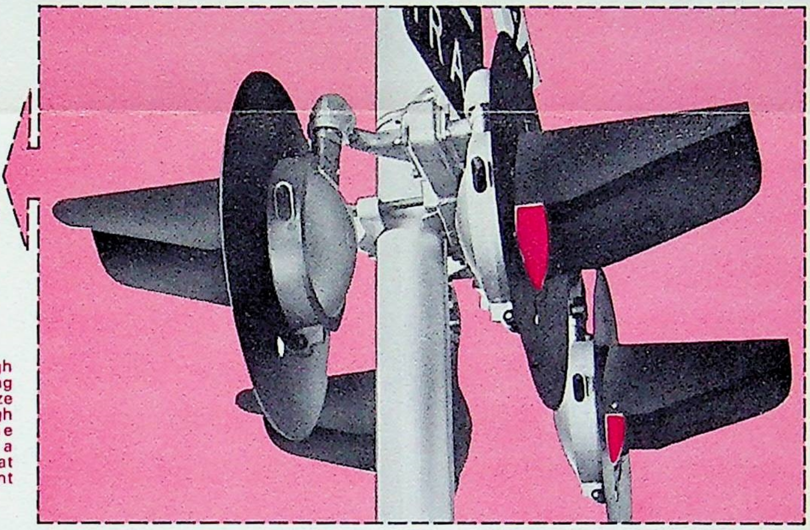
ALUMINUM

FLASHING LIGHT SIGNALS

WITH FLX-10* LIGHTS



* The RACO breakthrough in Flashing Light Housing Assemblies. (To maximize light output, specify High Lumen Quartz Iodine Lamp.) This will assure a higher intensity beam at both close-up or distant viewing.



Teamed to provide the optimum in Highway Crossing Protection

ALUMINUM offers greater resistance to corrosion . . . reduces painting and maintenance costs. Easier to handle, install, maintain and cuts shipping costs too! Keeps original appearance month after month.

Lamp unit assemblies and crossarms are cast aluminum . . . interchangeable with all AAR standard units now in service.

DESIGNED FOR
MINIMUM MAINTENANCE . . . LONG SERVICE LIFE

High impact Plastic Lenses provide high optical efficiency and hold breakage (from any cause) to a minimum.

The FLX-10 LIGHT SIGNAL UNIT is ideal in combination with the RACO Aluminum Cantilever Flashing Light Signal with swinging boom . . . greater visibility . . . easier servicing.

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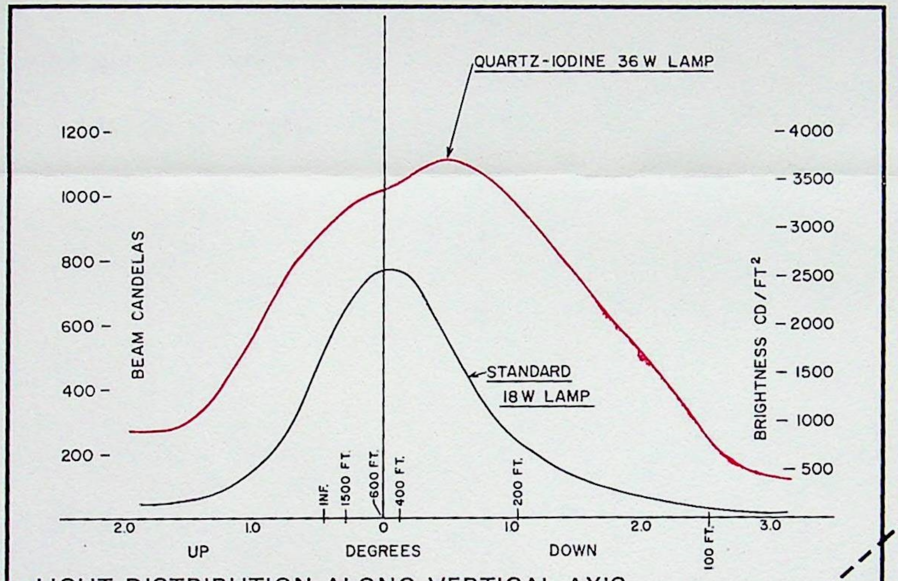
How to
break those
Highway Crossing
BOTTLENECKS

RACO® FLX-10

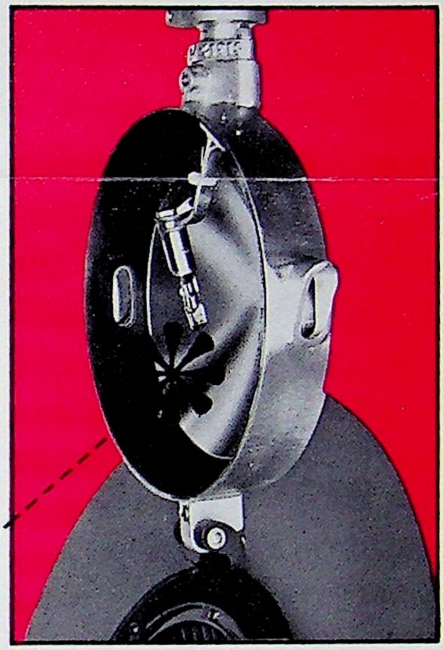
LIGHT SIGNAL UNIT

For greater highway crossing protection

BRIGHTNESS COMPARISON TO STANDARD SIGNAL LAMP



LIGHT DISTRIBUTION ALONG VERTICAL AXIS
WITH RED 30°/15° AAR LENS



with a greater output HIGH LUMEN QUARTZ IODINE LAMP

The RACO FLX-10 redesign permits a closer relationship of the lamp to the lens and reflector . . . an improved optical system with maximum available light transmitted. Result, a higher intensity beam for both distant and close-up viewing necessary for today's higher speed traffic. The new housing can be installed to existing crossarm-junction box fittings. A built in peep sight assures ease of alignment by one man.

LAMP SOURCE: The FLX-10 unit employs a high lumen quartz iodine incandescent single contact bayonet base lamp. Rated at 10-12V, 36W., the light output is equivalent to that of a standard 65W. incandescent lamp. The lamp receptacle will accommodate any standard S.C. bayonet based lamp normally used for this purpose.

LENS: High impact plastic, designed for maximum intensity of the central beam with horizontal and vertical spread to satisfy all highway configurations without deterioration of the central beam. Color control is within limits of present AAR spectral requisites.

For details and specifications, contact:

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BEST . . .
any way
you look
at it!

Railroad Accessories Corporation

4650 Main St. N.E., Minneapolis, Minn. 55421 • Phone 612-560-4400

DATA SHEET

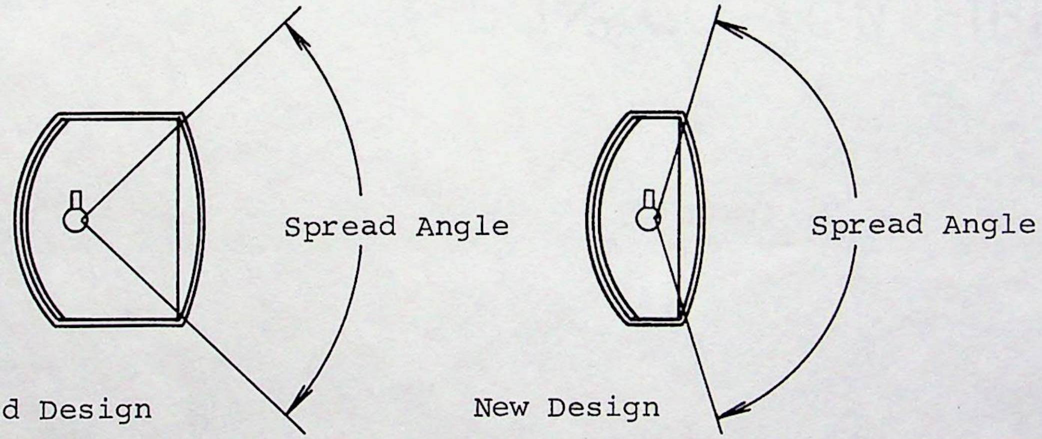
RACO FLX-10 LIGHT SIGNAL UNIT

FOR

HIGHWAY CROSSING PROTECTION

LAMP HOUSING

The lamp housing has been totally redesigned but retaining the capability of using the standard 8-3/8" roundel as lens. The principle advantage of the new design is obtained from the closer relationship between lens and reflector. The light scatter from the reflector and lamp, inherent in any optical system, is more effectively utilized by reason of this closer physical reflector/lens relationship. viz



Old Design

New Design

The result here is obviously more available light transmitted thru the lens.

. . . . . . .continued

The mounting of the light source has also been redesigned to eliminate all unnecessary shadows in the optical path. The bulb bracket itself is of heat treated, high tensil aluminum. The bracket is factory adjusted for exact bulb/reflector relationship in final assembly and test. No field adjustments are necessary - nor should they be permitted.

A sighting tube is built in to the lamp housing and is factory aligned with axis of the light beam permitting one man to install and align the signal.

The design contemplates top mounting of the housing with easy vertical and horizontal alignment and quick clamping in finally adjusted position. Adapters to all existing lamp brackets are available.

LIGHT SOURCE

The FLX-10 unit has been designed to accomodate the standard SC Bayonet base lamp, of whatever wattage and voltage rating the individual railroad desires. However - in the interest of providing maximum light output and visibility we are showing and recommending an incandescent iodine vapor lamp. This lamp was developed to meet the need for high lumen efficiency in the fields of photography, and has just recently been developed for low voltage applications, principally in the automotive fields. RACO can now supply this HIGH LUMEN LAMP for your signal application.

Our laboratory measurements substantiate lamp industry claims that the iodine lamp produces more than twice the lumens/watt, than does the standard tungsten filament lamp. The iodine lamp we are showing is operating at 10V-36W. The light output is therefore equivalent to that of a standard 65W lamp.

. . . . . . .continued

Operating at 10V the iodine lamp will have an operating life in excess of 2000 hours. In this connection we might mention that the operating voltage/life/lumens output characteristics of the iodine lamp are similar to those of the standard tungsten lamp.

The lamp filament is oriented vertically to provide natural vertical beam spread - thus obtaining a HOT central beam for both distant and close-up visual impact upon the approaching highway user.

Your own visual observations from the comparative lights in the demonstration will confirm the foregoing.

LENS

Our objective in lens design has been to provide a lens with -

(a) Maximum intensity of the central beam.

(b) Horizontal and vertical spread of beam to satisfy all highway configurations WITHOUT deterioration of the central beam.

(c) Color control within limits of present spectral requisites.

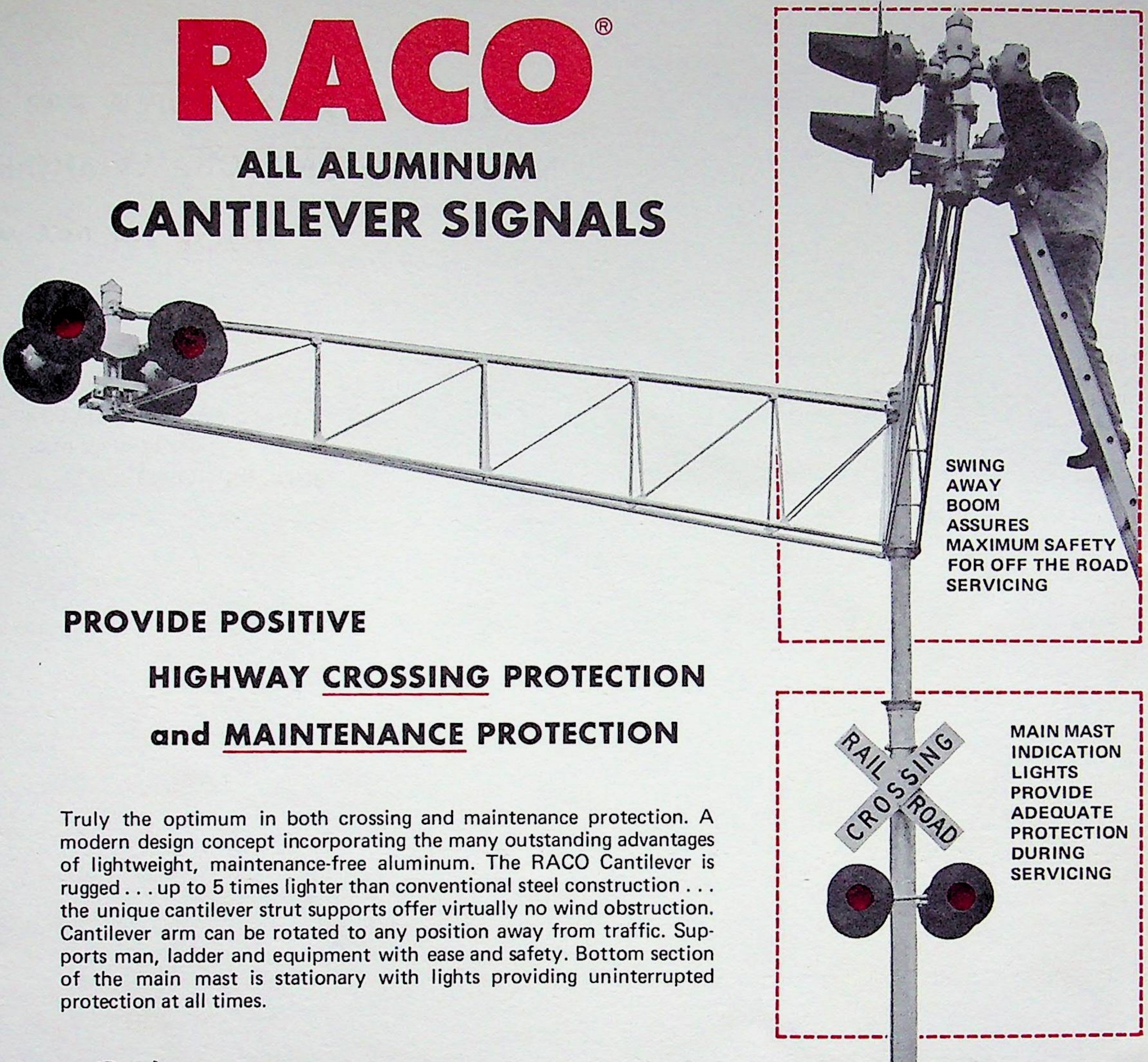
(d) Highest possible impact strengths of material.

We believe that the lens being shown here meets these objectives.

RACO
Minneapolis, Minnesota
August 29, 1967

RACO®

ALL ALUMINUM CANTILEVER SIGNALS

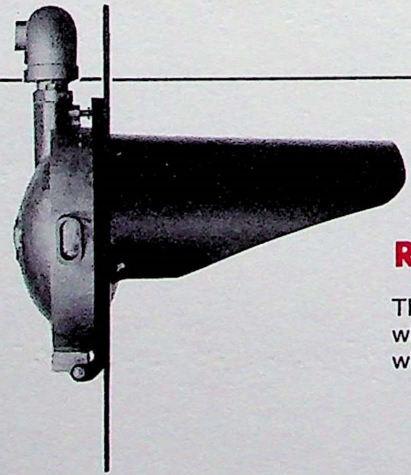


SWING
AWAY
BOOM
ASSURES
MAXIMUM SAFETY
FOR OFF THE ROAD
SERVICING

MAIN MAST
INDICATION
LIGHTS
PROVIDE
ADEQUATE
PROTECTION
DURING
SERVICING

PROVIDE POSITIVE HIGHWAY CROSSING PROTECTION and MAINTENANCE PROTECTION

Truly the optimum in both crossing and maintenance protection. A modern design concept incorporating the many outstanding advantages of lightweight, maintenance-free aluminum. The RACO Cantilever is rugged . . . up to 5 times lighter than conventional steel construction . . . the unique cantilever strut supports offer virtually no wind obstruction. Cantilever arm can be rotated to any position away from traffic. Supports man, ladder and equipment with ease and safety. Bottom section of the main mast is stationary with lights providing uninterrupted protection at all times.



RACO FLX-10 LIGHT SIGNAL UNITS

The FLX-10 LIGHT SIGNAL UNIT is ideal in combination with the RACO Aluminum Cantilever Flashing Light Signal with swinging boom . . . greater visibility . . . easier servicing.

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Now you get **BOTH** . . .

HIGHWAY CROSSING PROTECTION
and MAINTENANCE PROTECTION

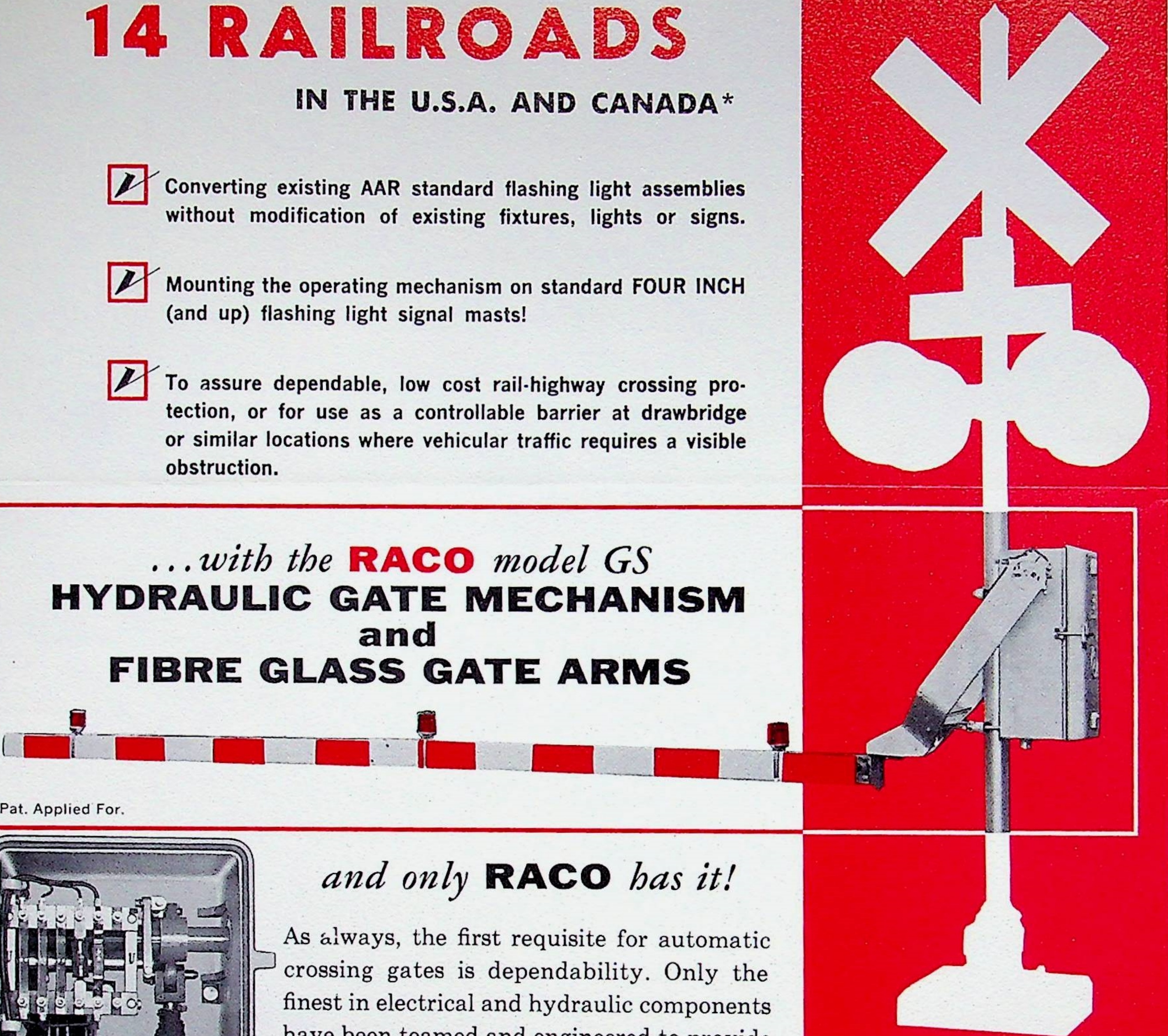
NOW IN SERVICE ON

14 RAILROADS

IN THE U.S.A. AND CANADA*

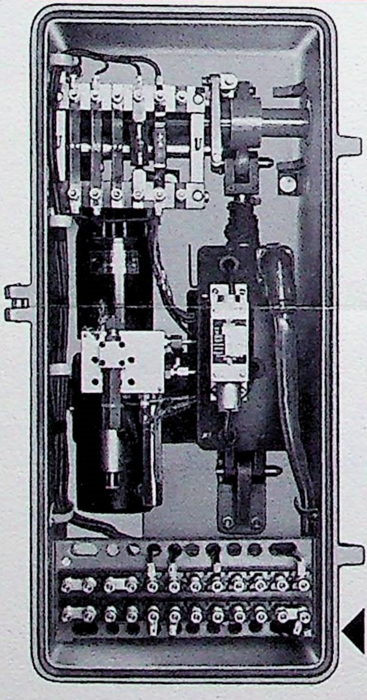
- ☑ Converting existing AAR standard flashing light assemblies without modification of existing fixtures, lights or signs.
- ☑ Mounting the operating mechanism on standard FOUR INCH (and up) flashing light signal masts!
- ☑ To assure dependable, low cost rail-highway crossing protection, or for use as a controllable barrier at drawbridge or similar locations where vehicular traffic requires a visible obstruction.

...with the RACO *model GS* HYDRAULIC GATE MECHANISM and FIBRE GLASS GATE ARMS



Pat. Applied For.

and only RACO *has it!*



As always, the first requisite for automatic crossing gates is dependability. Only the finest in electrical and hydraulic components have been teamed and engineered to provide optimum reliability and low maintenance costs. Total weight of the mechanism and housing is less than 200 lbs. . . . new Fiberglas gate arms exhibit great strength yet are only a fraction of the weight of wood arms.

The Griswold Model GS Hydraulic Crossing Gate offers maximum protection with lower installation costs to the customer.

The Hydraulic System and all components are conveniently arranged and readily accessible . . . protected by a weather-tight aluminum housing. Improved manifold hydraulic system requires only 4 pipe connections, minimizes possibility of any fluid leaks.

YES . . .

The Model GS Hydraulic Mechanism and Gate Arms are available complete with Fixtures, Flashing Lights and Signs for new installations.

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*And crossings at 4 Industrial Plants

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Progress Report...

RAILROAD ACCESSORIES CORPORATION

5 TENAKILL PARK **CRESSKILL, N. J.**

TELEPHONE:
CRESSKILL, N. J. LOWELL 8-4600
NEW YORK, N. Y. WISCONSIN 7-2088

DATA SHEET & SPECIFICATIONS

RACO MODEL "GS" HYDRAULIC GATE MECHANISM

and

RACO FIBRE GLASS GATE ARMS

MODEL "GS" GATE MECHANISM

Mode of Operation

Electro-Hydraulic -- electrically controlled and powered, low pressure, hydraulic system.

Electric Motor

AC or DC Universal -- direct connected to hydraulic pump.

Hydraulics

Low pressure, closed circuit system. Direct return flow to reservoir for gate arm descent. Normal operating pressure in the order of 300 - 600 p.s.i. Relief valving set at 1600 p.s.i.

Hold-Clear Valve

Electrically controlled and fluid pressure assist. Absence of electrical control opens return flow valve which is also forced open by hydraulic pressure caused by gate arm in other than horizontal position.

N.B.: Mechanism is designed and operates on a closed circuit (electrical and hydraulic) principle. Failure of electrical control or opening of hydraulic circuit will cause gate arm to assume horizontal position.

Environment

Designed to meet operating requirements at temperatures from -40°F to +185°F.

Operating Voltage

Nominal 12V DC (also available at 110V AC/DC)

Operating Current

10A to 35A (depending on length of gate arm) at 10V DC

Hold Clear Coil

Operating voltage -- 12V DC nominal
Operating current -- Pick up .500A
Hold-clear .250A

Vertical Torque

Approximately 200 ft. lbs. with 24' arm.

Horizontal Torque

Approximately 500 ft. lbs. with 24' arm.

Arm Rise Time

10 seconds (24' arm - 12V at motor)
13 seconds (24' arm - 9V at motor)

Arm Drop time

Adjustable with flow valve--factory set at 11-13 seconds for 24' arm

Mounting

Designed to mount on pipe mast of 4" to 8" I.D.

Housing

Cast Aluminum

****

RACO FIBRE GLASS GATE ARM

Construction

Appropriate combination of glass fibres and polyester resin to provide required strength and rigidity. Maximum sag at 24' length is in the order of three inches at 100°F. Material is unaffected by exposure to weather and atmosphere. Section is of hollow, rectangular form providing a conduit for gate arm light wiring.

Painting

White pigment is mixed with forming materials, so that entire arm is white "all the way through". Compatible paints of required color are applied to provide necessary striping. Reflectorized material such as paint, tape, buttons, or panels may be supplied as required.

Assembly

Gate arm is made up of 8' sections which telescope to provide required length, e.g. a 24' arm will require three 8' sections. Telescope junctions are bolted with cadmium-plated bolts.

Break-Away

In event gate arm is struck by a vehicle with sufficient force, shear pins located at gate arm support bracket will shear, and gate arm will fall to pavement before damage can occur to gate arm supports and mechanism housing or assembly. Experience to date has revealed also that gate arm has been undamaged. Arm light connections are plug-connected, which pull apart on dropping of gate arm.

Weight of Arm

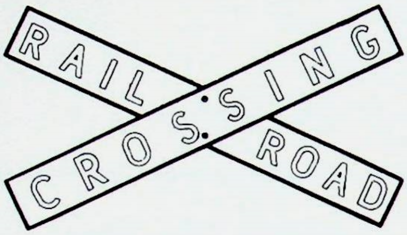
Approximately one pound per foot.

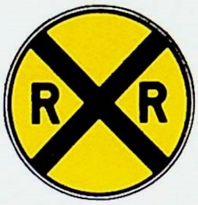
Shipping Weight

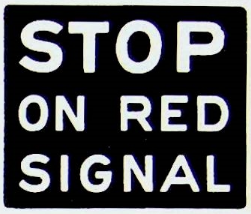
Approximately 300# -- includes housing, mechanism, gate arm supports, 24 ft. arm, and three gate arm lamps.

HAS:hm
October 1, 1965

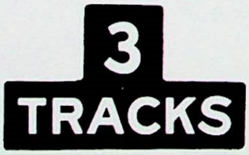
Railroad
Accessories
Corporation

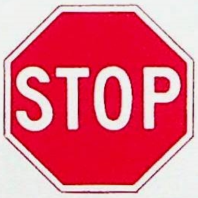

RAIL ROAD
CROSSING

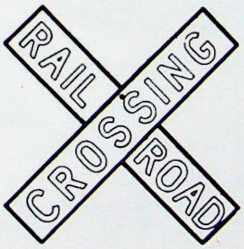



STOP
ON RED
SIGNAL

ALUMINUM
SCOTCHLITE
SIGNS






RAIL ROAD
CROSSING

Low cost aluminum Scotchlite Signs are long lasting. Constructed of alloy aluminum, they are light weight, easy to erect and maintain, and are corrosion-resistant. The reflecting material, attached permanently to the sign face, is wide angle Scotchlite that is clearly visible day or night in all weather. The Aluminum Scotchlite combination guarantees long lasting, trouble free crossing protection.

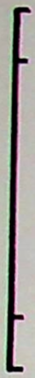
CROSSBUCK SIGNS Wood Post Mounted

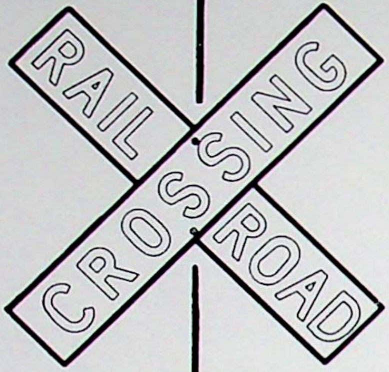
SINGLE FACED

SIZE 9″ x 48″

ANGLE 90°

Constructed of Extruded Alloy Aluminum No. 6063-T6. Legend block silk screened over wide angle Silver Scotchlite. Furnished complete with two ½″ galvanized mounting bolts — specify length.





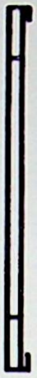
TW 33

DOUBLE FACED

SIZE 9″ x 48″

ANGLE 90°

Construction of Extruded Alloy Aluminum No. 6063-T6, back sheets No. 064 Alloy Aluminum, wide angle silver Scotchlite with block silk screened legend is easily seen from both sides. Furnished complete with two ½″ galvanized mounting bolts — specify length.



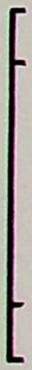
TW 33A

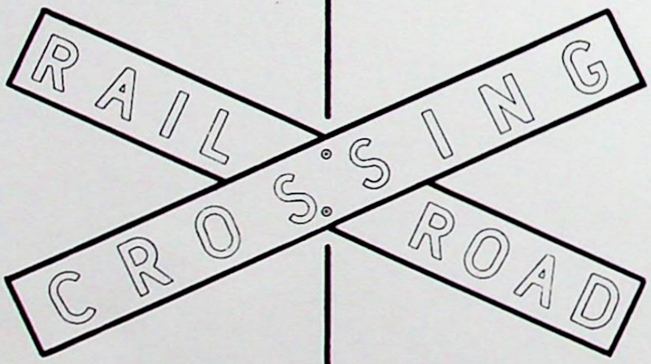
SINGLE FACED

SIZE 9″ x 72″

ANGLE 50°

Same Alloy Aluminum and Scotchlite specifications as TW 33 shown above. Furnished complete with two ½″ galvanized mounting bolts — specify length.





TW 333

DOUBLE FACED

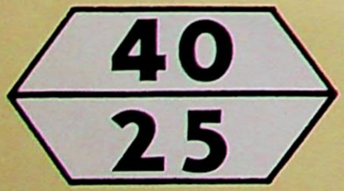
SIZE 9″ x 72″

ANGLE 50°

Same Alloy Aluminum and Scotchlite specifications as TW 33A shown above. This crossing sign is easily seen from both sides. Furnished complete with two ½″ galvanized mounting bolts — specify length.

TW 333A

SPEED SIGN

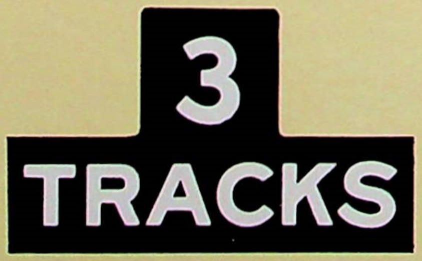


Speed signs are made to individual specifications. Constructed of Alloy Aluminum Sheet No. 6061-T6, .080 thickness or sheet steel, .125 thickness with wide angle Scotchlite easy to see speed limits in large block letters. Specify color and indicated speeds.

SHEET STEEL OR ALUMINUM

TW-533

MULTIPLE TRACK SIGN



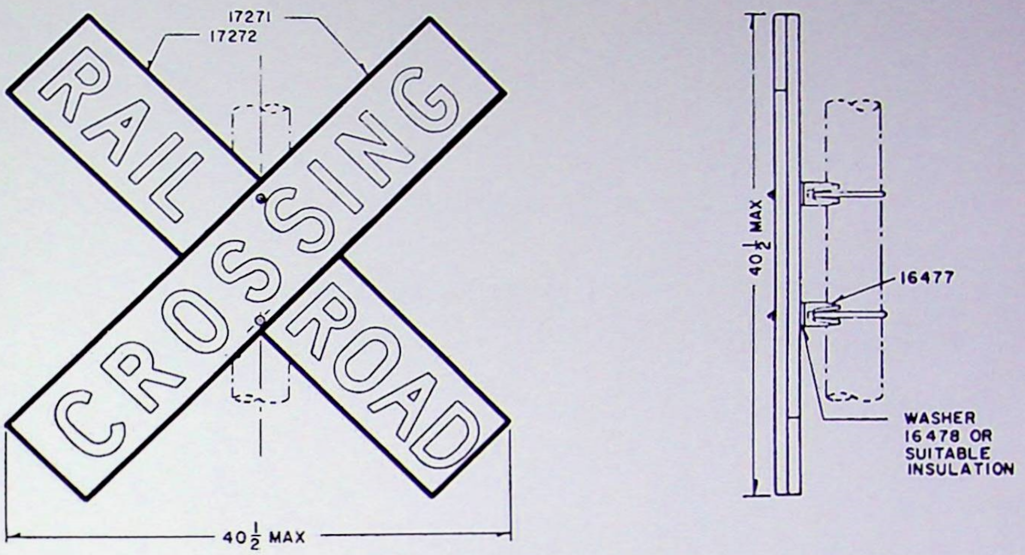
Track sign made of No. 6061-T6 Alloy Aluminum sheet, .080 thickness. Background silk screened black over silver reflecting Scotchlite. Furnished complete for wood or pipe post mounting. Wood post — two ½″ galvanized bolts — specify length. Pipe post — two aluminum clamps and "U" bolts — specify size of pipe.

TW 45A Wood Post Mounting

TW 445A Pipe Post Mounting

CROSSBUCK SIGNS Pipe Post Mounted

90° Pipe Post Mounted


17271
17272
RAIL ROAD
CROSSING
40 1/2 MAX
40 1/2 MAX
16477
WASHER
16478 OR
SUITABLE
INSULATION

TW 33B

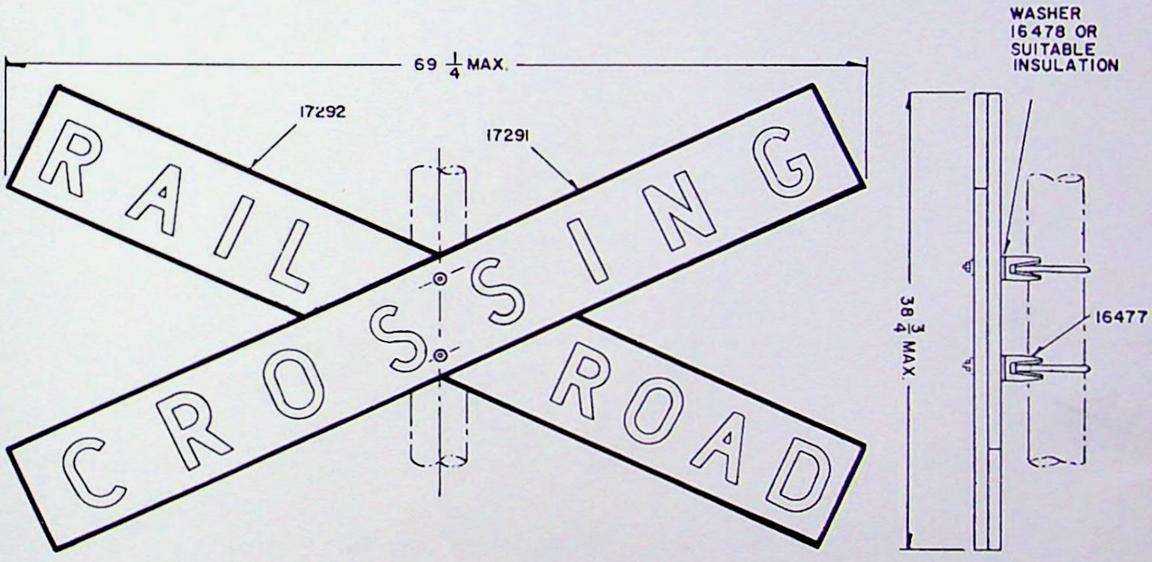
AAR 17261 — 90° RAILROAD CROSSING SIGN COMPLETE. Specify Pipe Size.

AAR 17262 — TWO BLADES COMPLETE. With bolts and fittings, less adapter clamps and U-bolts.

BOLT, SPECIFY AS REQUIRED

16554 For 4 Inch Pipe
16551 For 5 Inch Pipe
16972 For 6 Inch Pipe
16982 For 8 Inch Pipe

50° Pipe Post Mounted


69 1/4 MAX.
17292
17291
RAIL ROAD
CROSSING
38 3/4 MAX.
WASHER
16478 OR
SUITABLE
INSULATION
16477

TW 333B

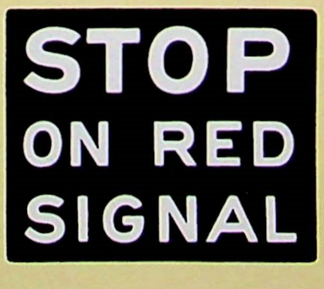
AAR 17281 — 50° RAILROAD CROSSING SIGN COMPLETE. Specify Pipe Size.

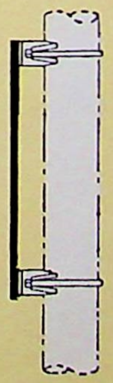
AAR 17282 — TWO BLADES COMPLETE. With bolts and fittings, less adapter clamps and U-bolts.

BOLT, SPECIFY AS REQUIRED

16554 For 4 Inch Pipe
16551 For 5 Inch Pipe
16972 For 6 Inch Pipe
16982 For 8 Inch Pipe

STOP ON RED SIGNAL

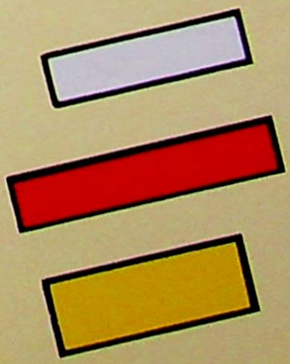

STOP
ON RED
SIGNAL



Constructed of No. 6061-T6 Alloy Aluminum Sheet, .080 thickness. Background silk screened black over silver reflecting wide angle Scotchlite. Furnished complete for pipe post mounting with two aluminum clamps and "U" bolts — specify size of pipe.

TW 446A Pipe Post Mounting

HAZARD DELINEATORS



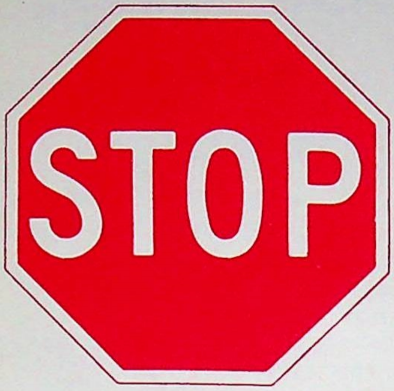
These hazard delineators are durable and bright warning signs when attached to loading docks, platforms, overhangs and other such obstructions. Specify color.

TH-3, Size 2 in. x 10 in.

TH-5, Size 2 in. x 16 in.

TH-6, Size 3 in. x 9 in.

REGULATORY SIGNS



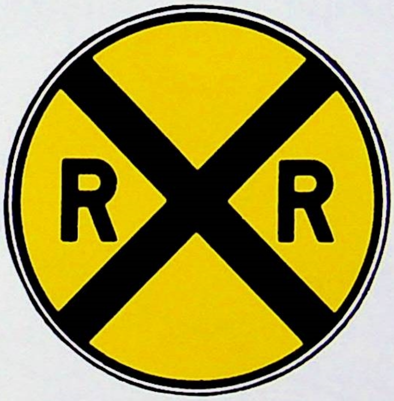
RED TR-I
YELLOW TR-IY

Aluminum Scotchlite STOP signs are made of wide-angle reflective sheeting applied directly to an aluminum face. Made of No. 6061-T6 Alloy Aluminum .080 thick. Because the Scotchlite surface has no exposed lenses it maintains a neat, clean appearance, dust washes away with the rain. Traffic control is available 24 hours a day.

ADVANCE WARNING SIGNS

TW-32

Scotchlite reflective sheeting also available in yellow and in a variety of sizes. The long lasting reflective surface continues to reflect light at any angle — even when bent or twisted by accident or vandalism. Return light is visible to the motorist for ¼ mile.



A Complete line of other Railroad Signs are available.

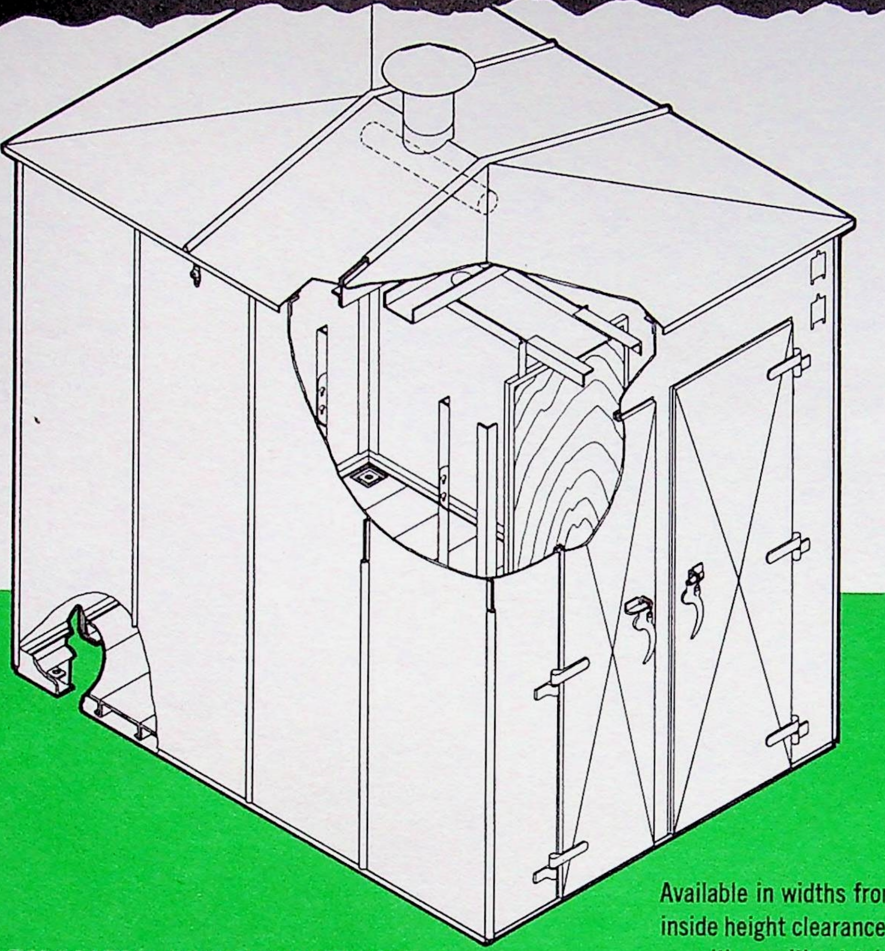
A complete line of other Railroad Aluminum Scotchlite signs are available in a variety of shapes and colors and include Whistle Post signs. Bridge Identificator, Signal Number and many more. These aluminum signs will not swell, warp, or splinter.

In addition to these ready-made signs, RACO can also supply you with Scotchlite blanks to cover existing wooden signs.

Railroad Accessories Corporation

Fairdale, Ky. • Minneapolis, Minn.

STEEL INSTRUMENT HOUSES and CASES



RACO PRODUCTS ® ENGINEERED FOR LONG LIFE

Designed
for maximum flexibility
Built
for long service life

51800 SERIES INSTRUMENT HOUSES

Available in widths from 5′ to 9′ and up to 20′ in length with inside height clearance of 7′ 4″. Choice of door arrangements . . . with or without telephone booth. Doors lock by means of built-in screw using a standard terminal wrench or spanner key. Equipped with a switch and duplex outlet at entrance door. Overhead porcelain light receptacles and convenience outlet are provided. Red oxide primer is applied to all joining parts before assembly. After assembly entire house painted with red oxide primer and finished with aluminum paint on interior. ½″ insulation board on interior is optional.

QUALITY CONSTRUCTION AND MATERIALS THROUGHOUT

- 12 GAUGE STEEL CONSTRUCTION
- ADJUSTABLE SHELVES & BACKBOARD

51100-960 SERIES CASES

Available in eight dimensional sizes with steel or wood shelves, racks for plug board relays, or backboard for wall mounted equipment. Doors open to 90° position and are removable when open. Ventilated and rust proofed. Doors accept padlock or lock by means of built-in screw, accessible with terminal wrench or spanner key.

MEMBER RPI RAILWAY PROGRESS INSTITUTE

For complete details, contact:

RACO PRODUCTS ® ENGINEERED FOR LONG LIFE

Railroad Accessories Corporation
Main Office and Plant: 4650 MAIN STREET N.E., MINNEAPOLIS, MINN. 55421
Office and Plant: 7615 NATIONAL TURNPIKE, FAIRDALE, KY. 40118

IN CANADA: Vale Enterprises, Ltd., 1120 Claire Crescent, Lachine, Quebec

RAILROAD ACCESSORIES CORP.
4650 Main Street N.E.
Minneapolis, Minnesota 55421

BULK RATE
U.S. POSTAGE
PAID
MINNEAPOLIS,
MINN.
Permit No. 161

How to
SOLVE
the
HOUSING PROBLEM!

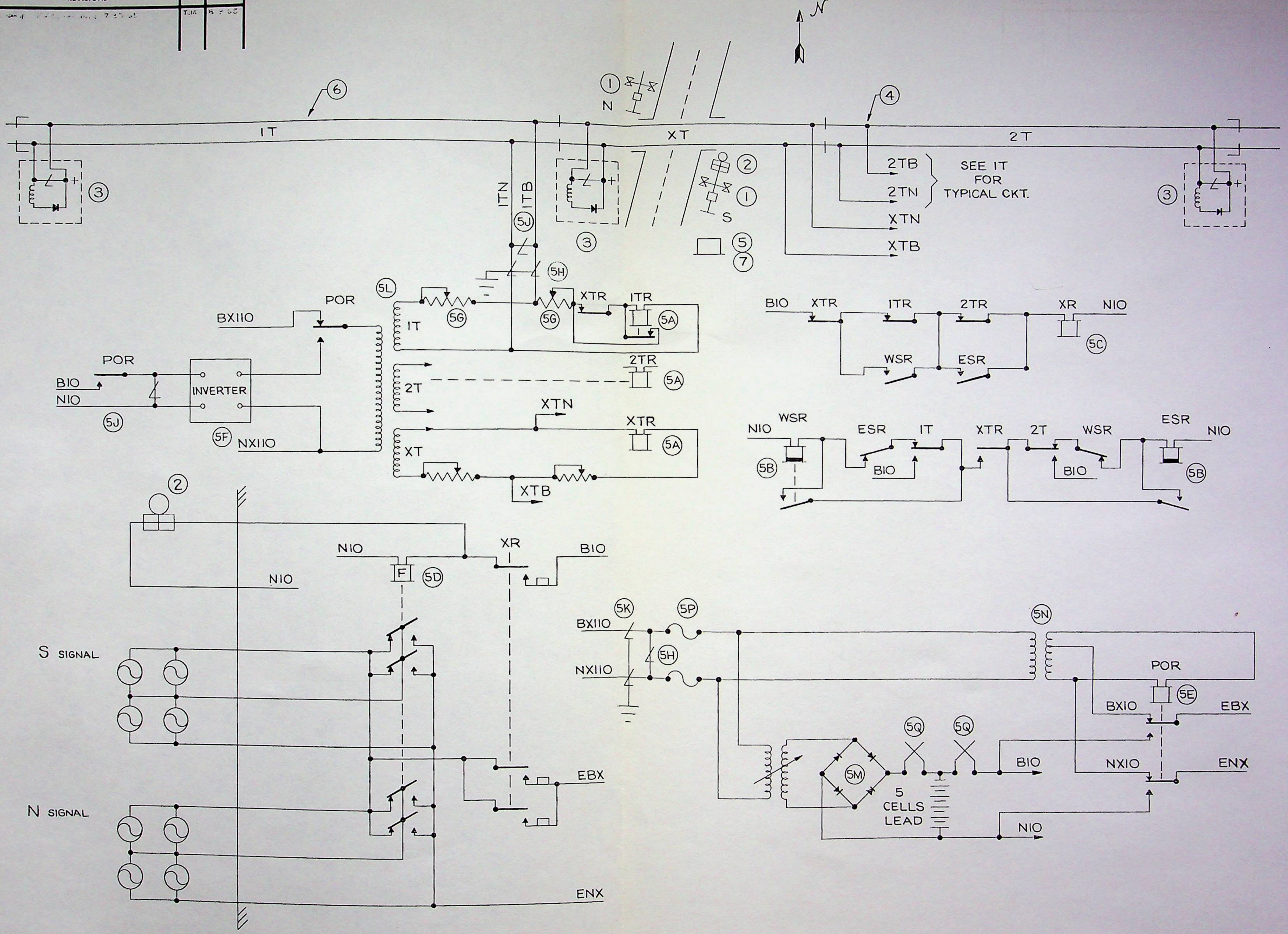
PACKAGE HIGHWAY CROSSING PROTECTION
MATERIAL LIST

FURNISHED IN PACKAGE

Item No.	Quantity	Reference	Description
1	2	42112-4X	FL Signal, 4" Aluminum mast and junction box base
	2	35800-99X	Griswold steel signal foundation
	2	W-149-4	Reflective type, Railroad Crossing Sign
	2	W-140-4	Reflective type, Stop on red signal sign
2	1	40200-4	Loud tone 8 to 12 VDC bell
3	3	TCR-1	Raco Track Circuit Rectifier
4	6	445-1	Raco Bootleg
5	1	51100-967	Griswold Instrument Case, 57" high x 60" long, factory wired and containing equipment listed below
	1	35800-856	Griswold steel signal foundation
5A	3	E-5	TPC 2 ohm 4 pt track relays
5B	2	E-5	TPC relays 4 pt slow release
5C	1	E-5	TPC XR relay HD back contacts
5D	1	E-1	TPC DC flasher relay
5E	1	E-7	TPC Power transfer relay
5F	1	12/115-1	Raco DC-AC Inverter
5G	6	603-2	Raco adjustable resistors .482 - 5.0 ohms
5H	7	485-31	Raco Clearview lightning arresters
5J	4	700-1	Raco Heavy duty equalizers
5K	2	701-2	Raco Power Line Protector
5L	1	-	Track transformer
5M	1	-	Battery charger 115V AC - 13.5 V DC
5N	1	-	Raco lighting transformer
5P	1	618-24	Raco double circuit disconnect
5Q	2	620-26	Raco test link assemblies
6	AR	900	Raco punch driven rail head bonds
7	1	-	Ground rod and clamp

7/22/65

REVISIONS	BY	DATE
[illegible] 7 [illegible] 65	TJM	5 [illegible] 65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5J
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2TN
SEE IT FOR TYPICAL CKT.
XTN
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5G
5G
XTR
ITR
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5 CELLS LEAD
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NX10
ENX
N10

RAILROAD ACCESSORIES CORP.
CRESSKILL, N. J.

TJM 7-26-65
JRT 7/26/65

DO NOT SCALE DRAWING
TOLERANCES: FRACTIONS ± .015
CASTINGS ± 1/16 DECIMALS ± .005

TITLE PACKAGE HIGHWAY
CROSSING PROTECTION
SCHEMATIC

NO. C80-02-034

[illegible] CORP.
[illegible] NEW JERSEY